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BAY AKEA AIR QUALITY MANAGEMENT DISTRICT

August 22nd, 2016

Director of Compliance Enforcement Attn: Title V Reports Bay Area Air Quality Management District 939 Ellis Street San Francisco, CA 94109

Subject: Title V Semi-Annual Monitoring Report for PE Berkeley, Inc., facility ID # B1326, for the period February 1st, 2016 through July 31st, 2016.

This Semi-Annual Report is being submitted is response to Section I, Standard Conditions Clause F, Monitoring Reports.

PE Berkeley, Inc. is submitting this Monitoring Report as required by the Bay Area Air Quality Management District. The permit requires only monitoring by record, periodically and by event, for source specific permit conditions. This facility maintains records of all product and quantities delivered and production by equipment run. We maintain and review product MSDS and applicable emission data for products delivered for consumption by source.

I certify to the best of my knowledge this to be a true and accurate statement.

Mazour

Regards,

Michael Mazowita PE Berkeley, Inc.

Attachment

PERMIT NON-COMPLIANCE SUMMARY

(Previously reported to District)

Facility ID: #B1326

Reporting period: February 1st, 2016 through July 31st, 2016.

DAS System Events

- March 13, 2016 DAHS recorded BAD data from 02:00 through 03:00 due to the Daylight Savings Time change.
- 2. April 05, 2016 DAHS system recorded BAD data from 07:00 through 08:00 due to CEMS Unit being placed into a manual calibration as part of a maintenance check.
- 3. 6/19/2016 Bad data recorded due to tripped power supply to sample probe heater. Bad data recorded from approximately 10pm through approximately 7am on 6/20/2016.
- 4. 6/29/2016 Bad data recorded due to tripped power supply to sample probe heater. Bad data recorded from approximately 5pm trough approximately 7am on 6/30/2016. Tested heater element, and it spears to be failing.
- 5. 6/30/2016 Bad data recorded due to tripped power supply to sample probe heater. Bad data recorded from approximately 10pm through approximately 9am on 7/1/2016. A spare sample probe heater element was ordered and will be replaced when received.

CEMS System Events

- 1. None. March 03, 2016 DAHS recorded bad data from 07:00 through 12:00. The CEMS monitors were placed in maintenance to replace the sample cooler and NOX converter.
- 2. March 04, 2016 DAHS recorded bad data from 07:00 through 08:00. The CEMS were placed in maintenance to perform a manual calibration.
- 3. March 22, 2016 DAHS recorded BAD data from 10:00 through 12:00 due to CGA testing.
- 4. April 05, 2016 CEMS monitors were placed in maintenance to perform a manual calibration as part of a maintenance check.
- 6/20/2016 Data lost today due to previous (6/19/2016) event. Manual data taken on combustion stream parameters and on file at facility. Two week averages recorded for today's data.
- 7/01/2016 Data lost today due to sample heater electrical interruption (tripped breaker).
 Cause of this is unknown at this time. Manual data was taken on combustion stream parameters and is on file at facility.

Other Events

None.

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Emergency Diesel Engine Generator

Type of	Emission	FE	Future	Emission Limit	Monitoring	Monitoring	Monitoring	Comp	liance
Limit	Limit	Y/N	Effective		Requirement	Frequency	Type	YES	/ NO
	Citation		Date		Citation	(P/C/N)			
Opacity	BAAQMD	N		>=Ringlemann 2.0 for no		N		Х	
	Regulation			more than 3 minutes in					
	6-1-303.1		٠	any hour.					<u> </u>
Opacity	SIP	Y		>=Ringleman 2.0 for no		N		X	
	Regulation			more than 3 minutes in					
	6-303.1			any hour				<u> </u>	
FP	BAAQMD	N		0.15 gr/dscf		N		X	
	Regulation			i					
FP	6-1-310 SIP	Y		0.15/45		N	-	Х	+
rr	Regulation	Y		0.15gr/dscf		N			
	6-310								
SO2	BAAQMD	Y		Property Line Ground	None	N	N/A	Х	+
302	9-1-301	-		level limits: <=0.5 ppm	None	1,	14721		
	7.50.		ĺ	for 3 minutes and <=					
			1	0.25 ppm for 60 min. and					
,				<= 0.05ppm for 24					
				hours.					
	BAAQMD	Y		0.5%wt Sulfur in liquid		P/E	Fuel	X	
	9-1-304			fuel			certification		
			{				of each		
,							delivery		
	D 4 4 0) 4 D			Unlimited hours for	D44614D	С	71 74	X	
Hours of Operation	BAAQMD 9-8-330.1	N			BAAQMD 9-8-530.2	P/M	Hour Meter, Records of	X	
Operation	9-6-330.1			emergencies.	9-8-330.2	P/IVI	Operating		
							Hours		
	BAAQMD	N	1	100 hours per calendar	BAAQMD	С	Hour Meter.	Х	
	9-8-330.2	• •		year or permit limit	9-8-530	P/M	Records of		
			1	whichever is lower for		2.1.7	Operating		,
				reliability-related			Hours		
				activities					
	BAAQMD	N	1/1/2012	50 hours per calendar	BAAQMD	С	Hour Meter,	X	
	9-8-330.3		ļ	year of permit limit	9-8-530	P/M	Records of		
			1	whichever is lower for			Operating		
				reliability-related			Hours		
	D4 4 6 4 4 5	Y	ļ	activities	D110115				
	BAAQMD	Y	1	Unlimited Hours for	BAAQMD	C	Hour Meter,	Х	1
	Condition #22820 Part		[Emergencies	Condition #22820 Part 3	P/M	Record		
	#22820 Part				and 4		Keeping		
	BAAOMD	Y		<=20 hours per year for	BAAQMD	С	Hour Meter.	х	+
	Condition	٠		reliability-related	Condition	P/M	Record	^	
	#22820 Part		1	activities	#22820 Part 3		Keeping		
	1				and 4				

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Table VII-B Applicable Limits and Compliance Monitoring Requirements S-40, Turbine

Type of	Emission	FE	Future	Emission Limit	Monitoring	Monitoring	Monitoring	Compl	iance
Limit	Limit	Y/N	Effective		Frequency	Frequency	Туре	YES /	NO
	Citation		Date		Citation	(P/C/N)			
NOX	BAAQMD 9-9-303.2	N		20.2 ppmv @ 15% O2, dry (adjusted per 9-9- 401), except during start- up	BAAQMD 9-9-501	С	СЕМ	Х	
NOX	SIP 9-9- 303.2	Y		20.2 ppmv @ 15% O2, dry (adjusted per 9-9- 401), except during start- up	SIP 9-9-501	С	СЕМ	х	
	BAAQMD 9-9-303.2	N		42 ppmv @ 15% O2, dry during natural gas curtailment or short testing periods	BAAQMD 9-9-501	С	СЕМ	Х	
	SIP 9-9-303.2	Y		42 ppmv @ 15% O2, dry during natural gas curtailment or short testing periods	SIP 9-9-501	С	CEM	X	
	BAAQMD Cond #366 Part 4	Y		20.2 ppmdv – natural gas: @ 15% O2, 3 hr avg, except during startr-up	BAAQMD Cond #366 Part 12	С	CEM	х	
NOX	BAAQMD Cond #366 Part 5	Y		20.2 ppmdv – natural gas: @15% O2 (combined S- 40 & S-41), 3 hr avg, except during start-up	BAAQMD Cond #366 Part 12	С	CEM	х	
	BAAQMD Cond #366 Part 6	Y		42 ppmdv – fuel oil: @15% O2, 3 hr avg, except during start-up	BAAQMD Cond #366 Part 12	Ċ	CEM	х	
NOX	BAAQMD Cond #366 Part 7	Y		39 ppmdv – fuel oil: @15% O2 (combined S- 40 & S-41), 3hr avg, except during start-up	BAAQMD Cond #366 Part 12	С	СЕМ	х	
	BAAQMD Cond #366 Part 10	Y		547 lb/day when burning natural gas and 1093 lb/day when burning fuel oil (combined S-40 & 41)	BAAQMD Cond #366 Part 12	С	СЕМ	х	
	NSPS Subpart GG, 60.332(a)(1)	Y		99 ppmdv @ 15% O2 dry, 4-hr average	NSPS Subpart GG, 60.334(b)	С	CEM	х	
со	BAAQMD Cond #366 Part 4a	Y		200 ppm @ 15% O2 3- hour average except during start-up.	BAAQMD Cond #366 Part 12a	С	CEM	х	
со	BAAQMD Cond #366 Part 5a	Y		200 ppm @ 15% O2 (combined S-40 & S-41) 3-hour average except during start-up	BAAQMD Cond #366 Part 12a	C	СЕМ	х	
со	BAAQMD Cond #366 Part 10	Y		2195 lb/day (natural gas or fuel oil)(combined S-40 & 41)	BAAQMD cond #366 Parts 10, 12a, and 18	С	CEM, Annual source test	х	
SO2	BAAQMD Cond #366 Part 2	Y		Maximum of 0.12% by wt Sulfur in fuel oil	BAAQMD Cond #366 Parts 2	P/E	At each delivery, fuel sampling using District's laboratory procedure method 10	х	

¹ Ground level Concentration

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Table VII-B Applicable Limits and Compliance Monitoring Requirements S-40, Turbine

Continued...

Type of	Emission	FE	Future	Emission Limit	Monitoring	Monitoring	Monitoring	Compl	
Limit	Limit Citation	Y/N	Effective Date		Frequency Citation	Frequency (P/C/N)	Туре	YES /	NO
SO2	BAAQMD Cond #366 Part 3	Y		Maximum of 0.25% by wt Sulfur in fuel oil during periods of natural gas curtailment	BAAQMD Cond #366 Parts 2	P/E	At each delivery, fuel sampling using District's laboratory procedure method 10		
	BAAQMD Cond #366 Part 11	Y		987 lb/day (natural gas) 40 tons/year (combined S-40 & S-41)	BAAQMD Cond #366 Parts 11	P/E	fuel sampling using District's laboratory procedure method 10	x	
SO2	BAAQMD 9-1-301	Y		GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		х	
SO2	BAAQMD 9-1-302	Y		300 ppm (dry)		N		Х	
	BAAQMD 9-1-304	Y		0.5% wt Sulfur in liquid fuel		P/E	Fuel certification	Х	
SO2	NSPS Subpart GG, 60.333(a)	Y	,	0.015% (vol) @ 15% O2 (dry), or 0.8% sulfur in gaseous fuel by weight	NSPS Subpart GG, 60.334 (h)(3)	P/M or EN	Monthly gaseous fuel analysis of current, valid purchase contract, tariff sheet or transportation contract	х	
SO2	NSPS Subpart GG, 60.333(b)	Y		0.8% sulfur in fuel oil by weight	NSPS Subpart GG, 60.334(h)(1), 60.334(i)(1)	P/E	At each fuel oil delivery, fuel sampling using District's laboratory procedure method 10	х	
Opacity	BAAQMD 6-1-301	N		>=Ringlemann No. 1 for no more than 3 minutes in an hour	BAAQMD Cond #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	х	
Opacity	SIP 6-301	Y		>=Ringlemann No. 1 for no more than 3 minutes in an hour	BAAQMD Cond #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	X	
FP	BAAQMD 6-1-310	N		0.15 grain/dscf @ 6% O2		N		Х	
FP	SIP 6-301	Y		0.15 grain/dscf @6% O2		N		Х	

¹ Ground level Concentration

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Table VII-C **Applicable Limits and Compliance Monitoring Requirements** S-41, Duct Burner

Type of	Emission	FE	Future	Emission Limit	Monitoring	Monitoring	Monitoring	Compl	iance
Limit	Limit	Y/N	Effective		Frequency	Frequency	Туре	-	NO
	Citation		Date		Citation	(P/C/N)			
NOX	BAAQMD	N		20.2 ppmv @ 15% O2,	BAAQMD	С	CEM	X	Ī
	9-9-303.2			dry (adjusted per 9-9-	9-9-501				
				401), except during start-					
NOX	SIP	Y		up 20.2 ppmv @ 15% O2,	BAAQMD	С	CEM	X	
''''	9-9-303.2	•	İ	dry (adjusted per 9-9-	9-9-501		0	••	
			i	401), except during start-	}				1
				шр					
	BAAQMD 9-9-303.2	N		42 ppmv @ 15% O2, dry during natural gas	BAAQMD 9-9-501	С	CEM	Х	
	9-9-303.2			curtailment or short	3-3-501				ŀ
				testing periods					
	SIP	Y		42 ppmv @ 15% O2, dry	BAAQMD	С	CEM	X	
	9-9-303.2			during natural gas	9-9-501				
			ĺ	curtailment or short testing periods					
NOX	BAAQMD	Y		20.2 ppmdv – natural gas:	BAAQMD	С	CEM	X	l
	Cond #366	-		@15% O2 (combined S-	Cond #366			-	
	Part 5			40 & S-41), 3 hr avg,	Part 12				
	50145			except during start-up	5110115				-
	BAAQMD Cond #366	Y		39 ppmdv – fuel oil: @15% O2 (combined S-	BAAQMD Cond #366	С	CEM	Х	
	Part 7			40 & S-41), 3hr avg,	Part 12				
i				except during start-up					
	BAAQMD	Y		547 lb/day when burning	BAAQMD	С	CEM	X	
	Cond #366 Part 10			natural gas and 1093	Cond #366 Parts 9 and				
	ran 10			lb/day when burning fuel oil (combined S-40 & S-	12				
				41)					
	NSPS	Y		99 ppmdv @ 15% O2	NSPS	С	CEM	X	Ì
	Subpart			dry, 4 - hr average	Subpart GG,				
	GG, 60.332(a)(1)				60.334(b)			•	
CO	BAAQMD	Y		200 ppm @ 15% O2	BAAQMD	С	CEM	Х	
	Cond #366			(combined S-40 & S-41)	Cond #366]			
	Part 5a			3-hour average except	Part 12a				
	DAAOMD	Y		during start-up	BAAOME	· c	CEM	X	
	BAAQMD Cond #366	1		2195 lb/day (natural gas) 2195 lb/day (fuel oil)	BAAQMD cond #366		CEM, Annual	Λ	
	Part 10			(combined S-40 & 41)	Parts 10,		source test		
		ı		,	12a, and 18				
SO2	BAAQMD	Y		987 lb/day (natural gas)	BAAQMD	P/E	At each fuel	X	
	Cond #366 Part 11			40 tons/year (combined S-40 & 41)	Cond #366 Parts 11		delivery, fuel sampling		
	raitii			3-40 & 41)	ransii		using		
						[District's		
.						1	laboratory		
							procedure method 10		
SO2	BAAQMD	Y	1	GLC ¹ of 0.5 ppm for 3		N	method 10	X	-
	9-1-301	•	,	min or 0.25 ppm for 60	1	.,			
				min or 0.05 ppm for 24					
		• •		hours					
SO2	BAAQMD 9-1-302	Y		300 ppm (dry)		N		Х	
	BAAQMD	Y		0.5% wt Sulfur in liquid		P/E	Fuel	NA ²	
	9-1-304			fuel			certification		

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Ground level Concentration
 Not Applicable. Source #41 configured for gaseous fuel only.

Table VII-C Applicable Limits and Compliance Monitoring Requirements S-41, Duct Burner

Continued...

Type of	Emission	FE	Future	Emission Limit	Monitoring	Monitoring	Monitoring	Compli	ance
Limit	Limit Citation	Y/N	Effective Date		Frequency Citation	Frequency (P/C/N)	Туре	YES /	NO
SO2	NSPS Subpart GG, 60.333 (a)	Y		0.015% (vol) @ 15% O2 (dry), or 0.8% sulfur in gaseous fuel by weight	NSPS Subpart GG, 60.334(h)(3)	P/M or EN	Monthly gaseous fuel analysis of current, valid purchase contract, tariff sheet or transportation contract	х	
SO2	NSPS Subpart GG, 60.333 (b)	Y		0.8% sulfur in fuel oil by weight	NSPS Subpart GG, 60.334 (h)(1), 60.334(i)(1)	. P/E	At each fuel delivery, fuel sampling using District's laboratory procedure method 10	NA ²	
Opacity	BAAQMD 6-1-301	N		>=Ringlemann No. 1 for no more than 3 minutes in any hour	BAAQMD Cond #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	NA ²	
Opacity	. SIP 6-301	· ү		>=Ringlemann No. 1 for no more than 3 minutes in any hour	BAAQMD Cond #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	NA ²	
FP	BAAQMD 6-310	N		0.15 grain/dscf @ 6% O2			N	Х	
FP	SIP 6-310	Y		0.15 grain/dscf @ 6% O2			N	Х	

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Ground level Concentration
 Not Applicable. Source #41 configured for gaseous fuel only.

August 22, 2016

Mike Mazowita, Director – Asset Management Olympus Power, LLC. 750 Short Ridge Ave. Rochester Hills, Michigan 48307

RE: Berkeley facility Title V Monitoring Report for 2016

Mike,

Enclosed is a copy of the Monitoring Report for 2016. Please sign the letter cover sheet and return the complete report to the facility. We will mail the Report to the District. This report is due by August 31st, 2016.

Please contact me should there be any questions regarding this submittal.

Regards,

David McEligot, Facility Manager

PE Berkeley, Inc.

Attachments

File: Title V Monitoring Report letter_2016bCover

Date:08/22/16